Request to Archive
With The National Centers for Environmental Information
For S-NPP Enterprise Algorithm Products
Provided by OSPO

2016-04-04

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

1. Who is the primary point of contact for this request?

Arron Layns

NESDIS

Lead, Algorithm Management Project

(301) 713-4773

arron.layns@noaa.gov

2. Name the organization or group responsible for creating the dataset.

NOAA/NESDIS/JPSS

3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.

This request is for the archive of Suomi National Polar Partnership (S-NPP) satellite data products generated from the NPP Data Exploitation (NDE) system in NESDIS/OSPO. The data products include: Aerosol Detection, Aerosol Optical Depth, Aerosol Particle Size, Volcanic Ash Detection and Height, Cloud Cover/Layers, Cloud Height (Top and Base), Cloud Mask, Cloud Optical Depth, Cloud Particle Size Distribution, Cloud Phase, Cloud Top Temperature, Cloud Top Pressure, Ice Age/Thickness, Ice Concentration, Ice Surface Temperature, Snow Cover, Ozone Total Column, Ozone Nadir Profile. These data products are Level 1 requirements for the Joint Polar Satellite System (JPSS) program.

4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)

From 2016-08-30

Ongoing as continuous updates to the data record

5. Edition or version number(s) of the dataset:

N/A

6. Approximate date when the dataset was or will be released to the public:

2016-08-30

7. Who are the expected users of the archived data? How will the archived data be used?

Scientists from NOAA and outside of NOAA are the main expected users of these data sets. The data are expected to be used for calibration/validation purposes, long-term environmental monitoring, and a wide variety of scientific research.

8. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?

All data products have followed the NESDIS Satellite Product and Services Review Board policies and best practices including user evaluation and algorithm readiness reviews (ARR). NCEI has been invited to all reviews. Most recently, a successful ARR was held December 15, 2015 that demonstrated the ability of the products to meet requirements. The requirements have been validated by the users through the NOAA Observing Systems Council (NOSC).

9. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?

These data are the next generation of the JPSS data products replacing the existing data products generated by the Interface Data Processing Segment (IDPS). Once the new products are successfully archived in CLASS, the CLASS subscription to IDPS for the older versions can cease. The new version of these products provide better continuity to other NOAA data sets from previous NOAA satellites/sensors (e.g., AVHRR on NOAA-19)

10. List the input datasets and ancillary information used to produce the data.

The main input to these data sets are the S-NPP VIIRS Sensor Data Record (SDR) products and other ancillary data as described in the Algortihm Theoretical Basis Documents, System Maintenance Manuals, and External User's Manuals.

11. List web pages and other links that provide information on the data.

http://www.star.nesdis.noaa.gov/jpss/

http://www.ospo.noaa.gov/ (there will be specific web pages by product once the products are operational at NESDIS/OSPO)

12. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.

1. Available for archive include: External Users Manual, Software Maintenance Manual, Algorithm Theoretical Basis Documents, and the Delivered Algorithm Package (DAP)

13. Indicate the data file format(s).

1. netCDF-4

14. Are the data files compressed?

No

15. Provide details on how the files are named and how they are organized (e.g., file_name_pattern_YYYYMM.tar in monthly aggregations).

See
https://docs.google.com/spreadsheets/d/12nQXfRPYD66_DWr3AtroUTi6inUL7SIeJohCFc6DZEc/edit#gid=8882200
83 for details by product.

16. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?

Sample data sets are available from the OSPO PALs.

17. What is the total data volume to be submitted?

Continuous Data: data volume rate for a continuous data production.

Total Data Volume Rate: 854.1GB per Day

Data File Frequency: 10200 per Day

Data Production Start: 2016-09-30

18. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.

No additional updates, revisions or replacement data are anticipated.

19. Describe the server that will connect to the ingest server at NCEI for submitting the data.

Physical Location: Suitland, MD
System Name: Product Distribution and Access (PDA)
System Owner: NESDIS/OSPO
Additional Information:

20. What are the possible methods for submitting the data to NCEI? Select all that apply.

1. FTP PUSH
See the CLASS-ESPDS ICD (protocol is NFSv4 for the data)

21. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.

22. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?

No known constraints apply to the data.

23. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.

The JPSS L1RD requires the archive of the JPSS data products in CLASS. Without this archive request, the JPSS data products will not be archived.

24. Are the data archived at another facility or are there plans to do so? Please explain.

No

25. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?

JPSS Level 1 Requirements Document (L1RD)

26. Do you have a data management plan for your data?

No

27. Have funds been allocated to archive the data at NCEI?

JPSS funds CLASS to archive all JPSS level 1 required products.

28. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.

N/A

29. Is there a desired deadline for NCEI to archive and provide access to the data?

Archive by: 2016-08-31
Accessible by:

30. Add any other pertinent information for this request.

In item #29, JPSS requests these products be archived starting with when they are operational in NDE 2.0. The operationalization date for NDE is still TBD, but it's likely between September-October, 2016. See https://docs.google.com/spreadsheets/d/12nQXfRPYD66_DWr3AtroUTi6inUL7SIeJohCFc6DZEc/edit#gid=888220083 for details by product.